

217/782-0610

Reynolds Aluminum  
McCook Plant  
NPDES Permit No. IL0001341  
Final Permit

*[Handwritten signature]*

EPA Region 5 Records Ctr



393617

Reynolds Aluminum  
Post Office Box 239  
Brookfield, Illinois 60513

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board prior to the effective date.

Should you have questions concerning the Permit, please contact Mark A. Schollenberger at the telephone number indicated above.

Very truly yours,

*[Handwritten signature]*  
Thomas C. McSwiggin, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

TG:TRK:HAS:sf/1163d.49-57

Enclosure: Final Permit

cc: USEPA/With Enclosure  
Region II/With Enclosure  
Permit Section  
Records Unit  
Consulting Engineer

NPDES Permit No. IL0001341

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

12-31-84  
1-30-85  
1-1-90

Expiration Date: January 1, 1990

Issue Date: December 31, 1984  
Effective Date: January 30, 1985

Name and Address of Permittee:

Facility Name and Address:

Reynolds Metals Co.  
Post Office Box 239  
Brookfield, Illinois 60513

Reynolds Metals Co.  
McCook Plant  
First Avenue & 49th Street  
McCook, Illinois 60525  
Cook County

Discharge Number and Name:

Receiving Waters

001 treated process water

Summit-Lyons Ditch

002 non contact cooling water and  
storm water runoff

Summit-Lyons Ditch

003 treatment plant bypass

Summit-Lyons Ditch

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.



Thomas G. McSwiggin, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

TGM:TRK:MAS:sf/sp/1199d

## Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
1. From the effective date of this permit until January 1, 1990, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:						
Outfall(s): 001						
Flow						
Temperature	See Special Condition No. 1				2/Week	Single Reading
BOD <sub>5</sub>	98.2	286.9	10	20	2/Week	Composite
Total Suspended Solids	118.0	344.3	12	24	2/Week	Composite
Fats, Oil and Grease	97.7	162.8	15	30	2/Week	Grab
pH	See Special Condition No. 8				2/Week	Grab
Total Chromium	.772	1.890	1.0	2.0	*1/Week	Composite
Cyanide	.515	1.245	0.1	0.2	*1/Week	Composite
Zinc	2.602	6.223	1.0	2.0	*1/Week	Composite
Aluminum	13.66	29.01			*1/Week	Composite

\*See Special Condition No. 3

NPDES Permit No. IL0001341

## Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
1. From the effective date of this permit until January 1, 1990, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:						
Outfall(s): 002						
Flow					Measure When Monitoring	
pH	See Special Condition No. 2				1/Week	Grab
Temperature	See Special Condition No. 1				1/Week	Single Reading
Total Suspended Solids			15	30	1/Week	Composite
Fats, Oil and Grease			15	30	1/Week	Composite

Outfall(s): 003\*

Flow					If Discharge Occurs Measure When Monitoring	
pH					Daily	Grab
Fats, Oil and Grease					Daily	Grab

\*See Special Condition No. 4

Special Conditions

1. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:

- A. Maximum temperature rise above natural temperature must not exceed 50F (2.80C).
- B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 30F (1.70C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
0F	60	60	60	90	90	90	90	90	90	90	90	60
0C	16	16	16	32	32	32	32	32	32	32	32	16

2. The pH shall be in the range 6.0 to 9.0.
3. At the option of the Illinois Environmental Protection Agency, the monitoring and reporting of total chromium, cyanide, zinc and aluminum as listed on the effluent limitations and monitoring page may be reduced to once a quarter, providing that the following conditions have been met:
- A. No violations of the maximum permit limitations are observed during the period of which the parameters were monitored.
- B. Monitoring of the parameters indicates a consistent average, with little deviation, at a point below the permitted average concentration.
- C. The parameters indicated have been monitored for a continuous period of 6 calendar months.

The permittee must make the request to discontinue the monitoring in writing and include a summary of the data collected.

4. Discharge from outfall 003 may occur only when the amount of precipitation in the area of the discharger's facility causes the discharge flow (a) to exceed the combined pump capacity to the lagoons (16,200) gpm and the capacity of the treatment facilities or (b) to exhaust the reserve capacity of the lagoons, or (c) both of the above. In addition, the Permittee shall dewater the lagoons back to the treatment facility at all possible times in order to maintain a maximum reserve capacity.

Special Conditions

In addition, Permittee shall record lagoon water volume, rainfall, and treatment plant discharge flow on a daily basis whenever the lagoons are in use to demonstrate that the reserve capacity of the lagoons is depleted and that the treatment plant is being operated at capacity to dewater the lagoons as fast as possible. These records shall be submitted with the DMR reports.

5. For the purpose of this permit, discharge 002 is limited to non-contact cooling water and storm water runoff, free from process and other wastewater discharges. In the event that the permittee shall require the use of water treatment additives, the permittee must notify the Agency in accordance with the Standard Conditions.
6. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.
7. The permittee shall record monitoring results on Discharge Monitoring Report Forms using one such form for each discharge each month.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Discharge Monitoring Reports shall be mailed to the IEPA at the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
2200 Churchill Road  
Springfield, Illinois 62706

Attention: Compliance Assurance Section

Additionally, Discharge Monitoring Report forms shall be mailed to United States Environmental Protection Agency in Chicago on a quarterly basis. The permittee shall submit the reports as follows, unless otherwise specified by the permitting authority.

Period	Report Due At
	U.S. Environmental Protection Agency
Jan, Feb, Mar	April 28th
April, May, June	July 28th
July, Aug, Sept	October 28th
Oct, Nov, Dec	January 28th

Special Conditions

Reports shall be addressed to United States Environmental Protection Agency as follows:

NPDES Compliance Unit  
United States Environmental Protection Agency  
Region V  
230 South Dearborn Street  
Chicago, Illinois 60604

8. The pH shall be in the range of 7.0-10.0.